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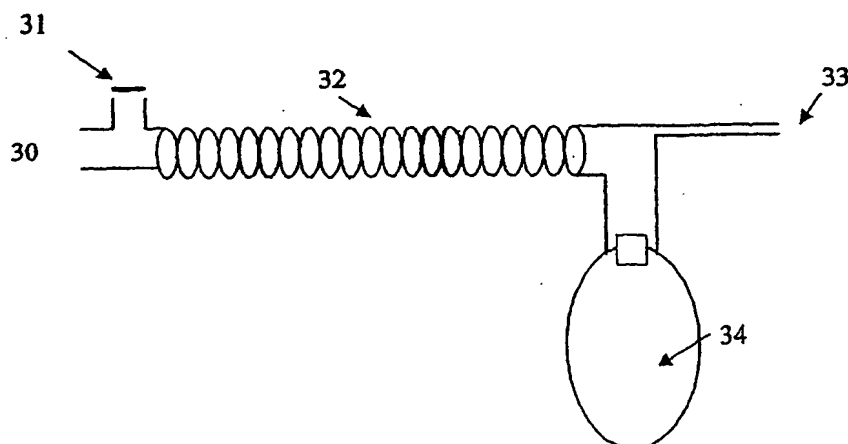
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(54) Title: METHOD FOR CONTINUOUS MEASUREMENT OF FLUX OF GASES IN THE LUNGS DURING BREATHING

Schematic diagram of Magill circuit, Mapleson A configuration



(57) Abstract: A method of calculating the flux of any gas(x) in a CBC circuit for a ventilated or a spontaneous breathing subject, for example said gas(x) being; a) an anesthetic such as but limited to ; i)N₂O ; ii) sevoflurane ; iii) isoflurane ; iv) halothane ; v) desflurane ; or the like b) Oxygen ; c) Carbon dioxide ; or the like utilizing the following relationships ; Flux of gas(x) = SGF (F_{sx} - F_{ex}) wherein SGF = Source of gas flow into the breathing circuit (CBC circuit) in liters/minute as read from the gas flow meter as set by the anesthesiologist ; F_{sx} = Fractional concentration of gas X in the source gas (which is set by the anesthesiologist) ; F_{ex} = Fractional concentration of gas X in the end expired gas as determined by a portable gas analyzer, or the like.

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